

Refillable Spray Bottle Worksheet

Vehicle Maintenance and Repair Series

Complete this worksheet to calculate the costs and potential savings of replacing aerosol spray cans with refillable spray bottles. The worksheet does not include the technician time to refill spray bottles because it is usually comparable to the time required to throw away an aerosol can and obtain a new one. This worksheet should be completed for each type of aerosol can product that might be replaced by refillable spray bottles.

| | Aerosol Can Use | Your Facility |
|----------|------------------------------------------------------------------------------------------|----------------------|
| A | Number of aerosol cans used annually | |
| B | Fluid ounces per aerosol can | |
| C | Cost per aerosol can | |
| D | Gallons of liquid aerosol used annually $[(A \times B) / 128 \text{ ounces per gallon}]$ | |
| E | Annual aerosol can disposal cost | |
| F | Total annual aerosol can cost $[(A \times C) + E]$ | |

| | Spray Bottle Use | Your Facility |
|----------|---------------------------------------------------------------------|----------------------|
| G | Number of refillable spray bottles needed (assume one per mechanic) | |
| H | Unit capital cost for spray bottles and accessories | |
| I | Bulk product purchase cost per gallon | |
| J | Total annual bulk product purchase cost $(D \times I)$ | |

| | Results of Spray Bottle Use | Your Facility |
|----------|------------------------------------|----------------------|
| K | Capital Cost $(G \times H)$ | |
| L | Annual savings $(F - J)$ | |
| M | Payback period (years) (K / L) | |

Note: Information in this fact sheet was developed by the U.S. Environmental Protection Agency Region 9 pollution prevention program